

# Turnaround Time Snapshot

Reporting period: June 12, 2022 to June 18, 2022

The turnaround time measured is defined as the time between collection of specimen and reporting of results. This includes time to collect the specimen, time to ship the specimen and time to process the specimen and report the result. Some delays incurred between specimen collection and lab receipt of specimen may not be attributable to the labs. The turnaround time data for individual test results are currently only available at the date level (vs. date & timestamp). As such, the turnaround time calculations are based on whole day. On occasion, turnaround time may be higher if there is a date change between collection of specimen and reporting of results. Labs that delivered more than 1,000 results in the week are included in the dashboard.

The data source for the analysis is CalREDIE; detailed methodology is included at the end of the document.

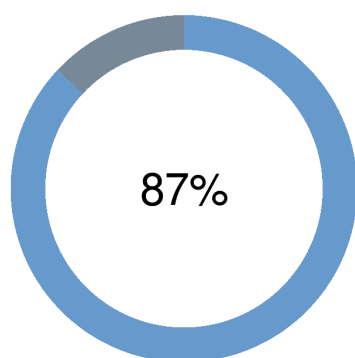


# Turnaround Time, days<sup>1</sup>: Reporting period of 6/12/2022 - 6/18/2022<sup>2</sup>

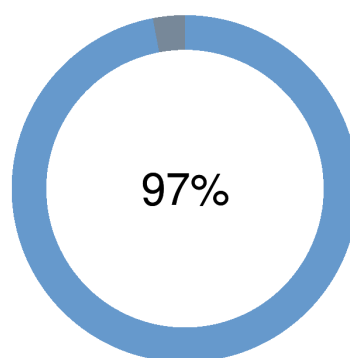
Average turnaround time from specimen collection to lab result: 0.8 day

% of results meeting turnaround time of 1 day

% of results meeting turnaround time of 2 days



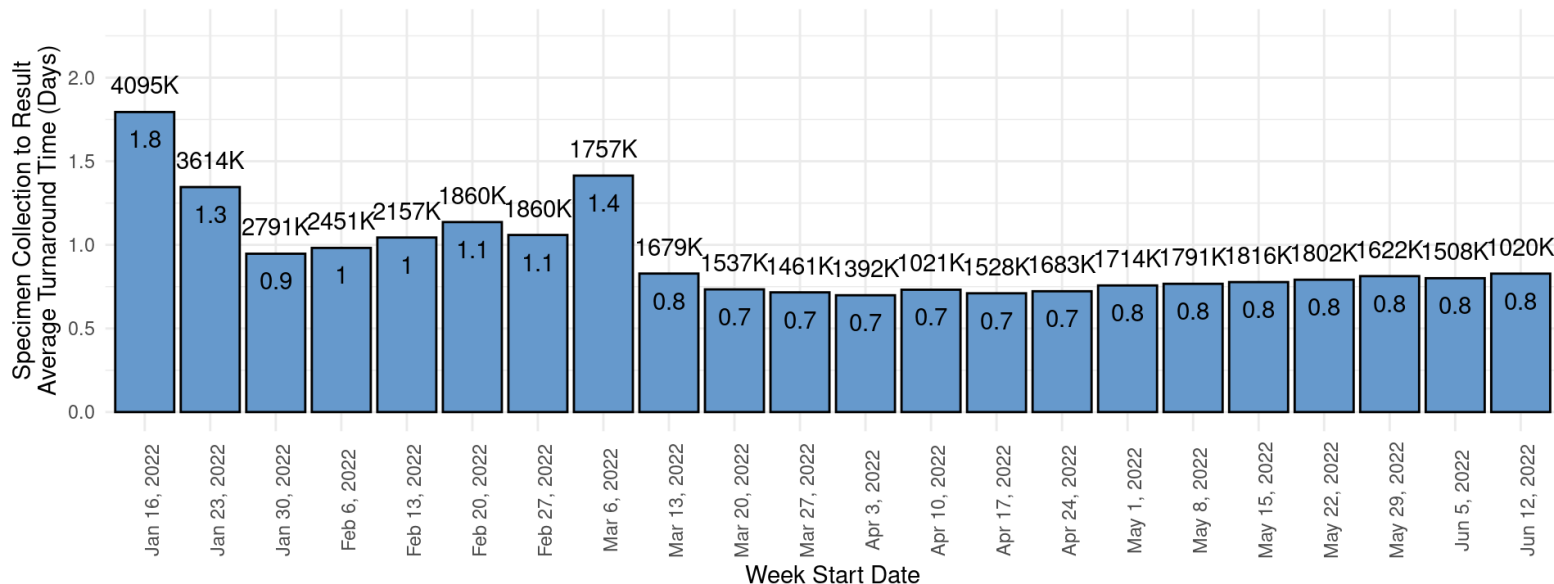
% change from week prior  
-2%



% change from week prior  
0%

## Average Turnaround Time by weeks, days<sup>1</sup>

Note: In text is the # of PCR tests, in thousands (000s)



1. Average turnaround times were determined based on date timestamp data only - hour timestamp currently unavailable

2. Results assigned to week based on specimen result date. Results may be delayed entering CalREDIE production, therefore the metrics retroactively change

Source: CalREDIE ELR messages received in CalREDIE production: "Specimen collected date" and "Result date" are reported by the laboratory via HL7 ELR messages

Time from specimen collection to lab results (days): Week of 6/12/2022 - 6/18/2022<sup>2</sup>

Lab Category	Location	Total test count	1 day, % of results	2 days, % of results	3 days - 4 days, % of results	5+ days, % of results	Total results within 2 days, % of results	Difference in % of results within 2 days from prior period	Specimen collection to result average TAT (days)
	Total	1,019,900	87%	10%	3%	0%	97%	-0.2%	<1
Commercial	Total	746,950	85%	12%	3%	0%	97%	-1.0%	<1
Commercial	Uncategorized	216,462	90%	7%	2%	0%	97%	-0.1%	<1
Commercial	Quest	63,781	71%	23%	5%	0%	94%	-1.5%	1.4
Commercial	Fulgent Genetics	53,231	93%	6%	1%	0%	98%	0.3%	1.1
Commercial	Flow Health	23,893	100%	0%	0%	0%	100%	-0.0%	<1
Commercial	Curative	23,739	85%	14%	1%	0%	99%	-0.4%	1
Commercial	Labcorp	20,248	45%	47%	8%	1%	91%	-0.7%	1.7
Commercial	COVID Clinic	20,067	91%	7%	2%	0%	98%	1.7%	<1
Commercial	SummerBio	20,029	82%	16%	1%	0%	98%	-1.4%	<1
Commercial	Avellino	19,466	81%	10%	7%	2%	91%	-2.9%	1.3
Commercial	Helix OpCo	14,597	95%	4%	0%	0%	100%	0.3%	<1
Commercial	MyMedLab	12,593	98%	2%	0%	0%	100%	-0.4%	<1
Commercial	MiraDx	12,586	53%	34%	13%	0%	86%	1.8%	1.4
Commercial	Inspire Health Alliance	7,948	92%	7%	0%	0%	99%	0.9%	1.1
Commercial	Discover Labs	7,503	65%	24%	9%	3%	88%	-1.9%	1.6
Commercial	Verily Labs	7,431	71%	20%	8%	1%	91%	0.4%	1.2
Commercial	Brio Clinical	7,373	82%	15%	2%	1%	97%	-0.3%	1.2
Commercial	Quickmed	7,330	99%	1%	0%	0%	100%	0.1%	<1
Commercial	The Testing Company	6,605	100%	0%	0%	0%	100%	0.0%	<1
Commercial	Biocept	5,579	65%	26%	8%	1%	90%	7.1%	1.5
Commercial	Healthy Care Clinical Laboratories	5,190	100%	0%	0%	0%	100%	0.0%	<1
Commercial	PREDICINE INC.	5,075	95%	5%	0%	0%	100%	0.1%	<1
Commercial	Biocerna	4,713	100%	0%	0%	0%	100%	0.0%	<1
Commercial	Cue Health	4,574	100%	0%	0%	0%	100%	0.0%	<1
Commercial	IGeneX	4,522	82%	13%	4%	1%	95%	-3.2%	1
Commercial	Biological Laboratory	4,512	97%	1%	2%	0%	98%	-1.1%	<1
Commercial	PMH Laboratory	4,428	85%	10%	3%	2%	95%	0.9%	<1
Commercial	Exceltox	4,113	90%	6%	2%	2%	97%	4.4%	<1

Commercial	renegade.bio	4,051	100%	0%	0%	0%	100%	0.0%	<1
Commercial	Ultimate Dx	3,882	94%	0%	0%	0%	94%	-1.5%	<1
Commercial	PathMD	3,588	98%	1%	0%	0%	100%	1.2%	<1
Commercial	One Health Laboratory	3,316	100%	0%	0%	0%	100%	0.0%	<1
Commercial	ShieldT3	3,212	97%	3%	0%	0%	100%	0.0%	<1
Commercial	MD Labs	2,771	98%	2%	0%	0%	100%	0.5%	<1
Commercial	Vitae Diagnostics	2,671	92%	3%	5%	0%	95%	2.9%	<1
Commercial	Dxterity Laboratory	2,538	93%	3%	3%	0%	96%	-0.3%	1.1
Commercial	Phamatech Laboratories & Diagnostics	2,467	100%	0%	0%	0%	100%	1.7%	<1
Commercial	Walgreens	2,426	100%	0%	0%	0%	100%	-0.0%	<1
Commercial	Omni Pathology	2,210	100%	0%	0%	0%	100%	0.2%	<1
Commercial	GRI Labs	2,107	34%	38%	25%	2%	72%	-19.8%	2
Commercial	Medical Diagnostic Laboratory	2,064	100%	0%	0%	0%	100%	0.0%	<1
Commercial	Pacific Diagnostic Laboratories	2,033	94%	6%	0%	0%	100%	0.3%	<1
Commercial	Primex Clinical Laboratories	1,943	100%	0%	0%	0%	100%	-0.0%	<1
Commercial	Genetworx	1,913	97%	2%	1%	0%	99%	6.7%	<1
Commercial	Pacific Toxicology Labs	1,841	93%	1%	6%	0%	94%	-3.1%	<1
Commercial	UDL	1,809	99%	1%	0%	0%	100%	-0.3%	<1
Commercial	Woksite Labs	1,774	100%	0%	0%	0%	100%	0.0%	<1
Commercial	WestPac Labs	1,757	84%	13%	3%	0%	97%	-1.0%	1.2
Commercial	Aegis Sciences	1,602	34%	42%	24%	0%	76%	-9.7%	1.9
Commercial	Bach Diagnostics	1,470	72%	22%	6%	0%	94%	-4.8%	1.4
Commercial	Ambry Genetics	1,459	95%	5%	0%	0%	100%	0.1%	<1
Commercial	Clinical Reference Laboratory	1,423	5%	40%	26%	29%	45%	-1.5%	4
Commercial	Sunrise Diagnostic Laboratory	1,422	100%	0%	0%	0%	100%	0.0%	<1
Commercial	Sun Clinical Laboratories	1,387	100%	0%	0%	0%	100%	0.1%	<1
Commercial	Valley Clinical Laboratory	1,368	98%	2%	1%	0%	99%	3.0%	<1

Commercial	AIT Labs	1,341	23%	52%	21%	4%	76%	0.3%	2.2
Commercial	Crestview Clinical Laboratory	1,330	73%	26%	1%	1%	98%	4.6%	1.2
Commercial	InnerHealth Laboratory	1,245	98%	1%	0%	1%	99%	1.0%	<1
Commercial	Genentox Laboratories	1,244	89%	2%	6%	4%	90%	-9.0%	<1
Commercial	Simple Laboratories	1,171	81%	9%	8%	3%	90%	-8.3%	1.2
Commercial	Life Technologies Clinical Services	1,122	99%	1%	0%	0%	100%	23.4%	<1
Commercial	Aptitude Clinical Diagnostics	1,076	100%	0%	0%	0%	100%	0.0%	<1
Commercial	Cormeum Lab Services	1,003	50%	38%	12%	0%	88%	-9.6%	1.6
Medical Center Affiliated	Total	261,764	93%	5%	1%	0%	98%	2.3%	<1
Medical Center Affiliated	Kaiser NorCal	41,497	93%	7%	1%	0%	99%	-0.6%	1
Medical Center Affiliated	Kaiser SoCal	40,406	97%	3%	0%	0%	100%	0.3%	<1
Medical Center Affiliated	Dignity Health	15,665	99%	1%	0%	0%	99%	0.2%	<1
Medical Center Affiliated	Sutter Health	15,365	96%	4%	0%	0%	100%	0.2%	<1
Medical Center Affiliated	UCLA	14,487	72%	16%	10%	2%	88%	-1.5%	1.3
Medical Center Affiliated	Santa Clara Valley Medical Center	13,654	100%	0%	0%	0%	100%	0.0%	<1
Medical Center Affiliated	UC Davis	12,951	92%	8%	0%	0%	100%	-0.1%	<1
Medical Center Affiliated	UCSD	9,375	91%	7%	3%	0%	97%	33.5%	<1
Medical Center Affiliated	Loma Linda University Health	7,819	68%	16%	12%	4%	85%	-0.3%	1.1
Medical Center Affiliated	Stanford Hospital and Clinics	7,228	99%	1%	0%	0%	100%	0.0%	<1
Medical Center Affiliated	UC Irvine	5,694	70%	27%	3%	0%	97%	15.4%	<1
Medical Center	Sharp	5,262	99%	1%	0%	0%	100%	0.2%	<1

Center Affiliated	HealthCare	5,262	99%	1%	0%	0%	100%	-0.2%	<1
Medical Center Affiliated	Scripps	5,200	100%	0%	0%	0%	100%	0.0%	<1
Medical Center Affiliated	Cedars-Sinai Medical Center	5,127	77%	17%	5%	0%	94%	3.5%	1.1
Medical Center Affiliated	HCA	4,940	93%	7%	0%	0%	100%	0.0%	<1
Medical Center Affiliated	Providence Health & Services	4,573	100%	0%	0%	0%	100%	-0.0%	<1
Medical Center Affiliated	UCSF	4,305	99%	1%	0%	0%	100%	0.1%	<1
Medical Center Affiliated	Community Medical Centers	4,044	99%	1%	0%	0%	100%	0.2%	<1
Medical Center Affiliated	Calm Lab	3,620	100%	0%	0%	0%	100%	0.1%	<1
Medical Center Affiliated	Community Memorial Health System	2,181	98%	2%	0%	0%	100%	-0.1%	<1
Medical Center Affiliated	University of Southern California - Los Angeles	2,099	100%	0%	0%	0%	100%	0.0%	<1
Medical Center Affiliated	Palomar Medical Center	2,008	100%	0%	0%	0%	100%	-0.1%	<1
Medical Center Affiliated	Zuckerberg San Francisco General Hospital	1,727	100%	0%	0%	0%	100%	-0.0%	<1
Medical Center Affiliated	Exer with Providence	1,567	99%	1%	0%	0%	100%	0.1%	1
Medical Center Affiliated	Ventura County Hospital	1,551	100%	0%	0%	0%	100%	0.2%	<1
Medical Center Affiliated	Adventist Health	1,449	100%	0%	0%	0%	100%	0.0%	<1
Medical Center Affiliated	Veterans Affairs	1,358	98%	2%	0%	0%	100%	0.0%	<1
Medical Center Affiliated	El Camino Health	1,278	84%	15%	1%	0%	99%	-1.5%	<1
Medical Center Affiliated	St. Agnes Medical	1,140	100%	0%	0%	0%	100%	0.0%	<1
Medical Center Affiliated	John Muir Health	1,098	100%	0%	0%	0%	100%	-0.2%	<1

PHL	Color Lab Network	73,789	78%	20%	2%	0%	97%	0.9%	1.2
PHL	Total	6,886	83%	13%	4%	1%	95%	0.9%	1.1
PHL	Orange PHL	1,252	87%	11%	1%	0%	99%	2.4%	<1
PHL	Contra Costa PHL	1,232	92%	8%	0%	0%	100%	0.0%	1.1
PHL	Sacramento PHL	1,220	98%	0%	1%	0%	99%	0.8%	<1
Uncategorized	Uncategorized	4,300	90%	5%	4%	1%	95%	-2.9%	<1

Legend	Period of time with highest share of results	Increase in % results within 2 days from prior period	Defined as -1 to 1% change in results within 2 days from prior period	Decrease in % results within 2 days from prior period
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1. Average turnaround times were determined based on date timestamp data only - hour timestamp currently unavailable
2. Results assigned to week based on specimen result date; Results may be delayed entering CalREDIE production, therefore the metrics retroactively change
3. Uncategorized entities are reporting facilities that could not be determined to be a commercial lab, a medical center affiliated lab, or a public health lab
4. Numbers may not add up due to rounding.
5. Records with result date more than 60 days after specimen collection date are assumed to represent data quality outliers, and are not representative of current lab capacity. Therefore, records with result date more than 60 days after specimen collection date are excluded from average turnaround time and percentage of results with turnaround time greater than or equal to five days. These exclusions may affect the row totals for a given lab where the % of results do not add to 100%.

Note: The metrics described may differ from other state-reported data. The testing volumes in this report includes only ELR messages received in CalREDIE production.

Source: CalREDIE ELR messages received in CalREDIE production; "Specimen collected date" and "Result date" are reported by the laboratory via HL7 ELR message"



# Methodology for calculating lab turnaround time (TAT) from specimen collection to lab result

## Data

- Data source - CalREDIE Electronic Lab Reporting (ELR) messages received in CalREDIE production
- "Specimen collected date" and "Result date" are reported by the laboratory via HL7 ELR messages

## Assumptions

- Only labs processing at least 1K tests during the reporting period are included in the lab breakdown
- The turnaround time measured is defined as the time between collection of specimen and reporting of results.
  - This includes time to collect the specimen, time to ship the specimen and time to process the specimen and report the result. Some delay between specimen collection and lab receipt of specimen may not be attributable to the labs.
- The turnaround time for individual test results are currently only available at the date level (vs. date & timestamp). As such, the turnaround calculations are based on whole day. On occasion, turnaround time may be higher if there is a date change between collection of specimen and results.
- **Sample calculation**
  - Example data: Specimen collected date: 7/20, Result date: 7/27, DISA arrival date: 7/27
  - Specimen collection to CDPH receipt of lab result = Result date (7/27) - Specimen collected date (7/20) = 7 days
  - Lab result to CDPH receipt of lab: DISA arrival date (7/27) - Result date (7/27) =< 1 day

## Additional notes

- The metrics described may differ from other state-reported data. The testing volumes in this report includes only ELR messages received in CalREDIE production
- Results are assigned to week based on specimen result date and there may be a delay in releasing results into CalREDIE production, as local health jurisdictions may still be processing the results in the reported period. As such, the metrics may retroactively change as results come in for prior reporting periods
- The metrics described may differ from other state-reported data. The testing volumes in this report includes only ELR messages received in CalREDIE production